IN THE CLAIMS:

Please **AMEND** claims 1, 6, 17, and 20, and **CANCEL** claims 3, 19, and 21 without prejudice or disclaimer in accordance with the following:

1. **(PREVIOUSLY PRESENTED)** An information storage medium which stores data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the erase pattern comprises a multi-pulse having a leading pulse with a power level set at a low power level of the multi-pulse,

a power level of a period between an end point of the erase pattern and a start point of a leading pulse of the recording pattern is set at a high power level of the multi-pulse, and

an end point of ~~the~~ another recording pattern and a start point of the erase pattern are concatenated by a cooling pulse of the waveform, and

the cooling pulse has a power level below the low power level of the multi-pulse.

2. **(ORIGINAL)** The information storage medium of claim 1, wherein:

the first state is a mark formed by a first level of an NRZI data signal, and

the second state is a space formed by a second level of the NRZI data signal.

3. **(CANCELLED)**

4-5. **(CANCELLED)**

6. **(CURRENTLY AMENDED)** ~~The information storage medium of claim 1~~ An information storage medium which stores data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the erase pattern comprises a multi-pulse having a leading pulse with a power level set at a low power level of the multi-pulse,

a power level of a period between an end point of the erase pattern and a start point of a leading pulse of the recording pattern is set at a high power level of the multi-pulse,

an end point of the recording pattern and a start point of the erase pattern are concatenated by a cooling pulse of the waveform, and

the waveform includes another recording pattern in which a power level of a period between a start of the another recording pattern and an end of another erase pattern preceding the another recording pattern is adjusted according to a pulse of the multi-pulse of the another erase pattern.

7. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 1, wherein the data recorded using the waveform is modulated according to a Run Length Limited (RLL)(1, 7).

8. **(CANCELLED)**

9. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 1, wherein:

the recording pattern comprises another multi-pulse, and

a first one of the another multi-pulses of the recording pattern after the period has a power that is other than the low power level of the leading pulse of the erase pattern.

10. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 9, wherein:

the recording pattern comprises another multi-pulse, and

a first one of the another multi-pulses of the recording pattern after the period has a power that is greater than the low power level of the leading pulse of the erase pattern.

11. **(CANCELLED)**

12. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 10, wherein the power of the first one of the another multi-pulses of the recording pattern is greater than the high power level of the erase pattern.

13. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 9, wherein the power of the leading pulse of the another multi-pulse of the recording pattern is greater than the power of the period between the end point of the erase pattern and the start point of the leading pulse of the another multi-pulse of the recording pattern.

14. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 9, wherein the another multi-pulse of the recording pattern further comprises a recording pulse having a recording power greater than the high power level of the erase pattern.

15. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 10, wherein the another multi-pulse of the recording pattern further comprises a recording pulse having a recording power greater than the high power level of the erase pattern.

16. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 1, wherein the high power level of the period is other than a power level of a last pulse of the multi-pulse of the erase pattern.

17. **(CURRENTLY AMENDED)** ~~The information storage medium of claim 9~~An information storage medium which stores data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the erase pattern comprises a multi-pulse having a leading pulse with a power level set at a low power level of the multi-pulse,

a power level of a period between an end point of the erase pattern and a start point of a leading pulse of the recording pattern is set at a high power level of the multi-pulse,

an end point of the recording pattern and a start point of the erase pattern are concatenated by a cooling pulse of the waveform,

the recording pattern comprises another multi-pulse, and

a first one of the another multi-pulses of the recording pattern after the period has a power that is other than the low power level of the leading pulse of the erase pattern, and

the cooling pulse has a cooling power less than a power of a last pulse of the another multi-pulse of the recording pattern and less than the low power level of the leading pulse of the multi-pulse of the erase pattern.

18. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 1, wherein the high power level of the period is other than a power level of a last pulse of the multi-pulse of the erase pattern.

19. **(CANCELLED)**

20. **(CURRENTLY AMENDED)** An information storage medium which stores data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the erase pattern comprises a multi-pulse having a high power level and a low power level,

the multi-pulse of the erase pattern comprises a leading pulse with a power level set at the low power level of the multi-pulse,

a power level of a period between an end point of the erase pattern and a start point of a leading pulse of the recording pattern at the low power level of the multi-pulse,

~~the~~ an end point of another recording pattern preceding the erase pattern and a start point of the erase pattern are concatenated by a cooling pulse of the waveform, and

the cooling pulse has a cooling power less than a power of the low power level of the multi-pulse of the erase pattern.

21. **(CANCELLED)**

22. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 20, wherein the low power level of the period is a power level of a last pulse of the multi-pulse of the erase pattern.